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come to be clogg'd in their motion : Whence it seem'd reasonable to expect that upon the Reunion of the Saline particles into such a Body , as they had constituted before, the redintegrated Sal Armoniack having, neer upon , the same Texture, would, upon its being redissolv'd, produce the same, or a not much inferior degree of Coldness : And hereupon , though I well enough foresaw that an Armoniack solution, being boyl'd up in Earthen vessels (for Glass ones are too chargeable) would, by piercing them , both lose some of the more subtile parts, and thereby somewhat impair the texture of the rest ; yet I was not deceiv'd in Expecting, that the dry Salt, remaining in the pipkins, being redissolv'd in a due proportion of water, would very considerably infrigidate it; as may further appear by the Notes, which for your greater satisfaction you will find here subjoyn'd, as soon as I have told you, that, though for want of other vessels I was first reduc'd to make use of Earthen ones, and the rather, because some Metallin Vessels will be injur'd by the dissolv'd Sal Armoniack, if it be boyl'd in them; yet I afterwards found some conveniences in Vessels of other Metall, as of Iron; whereof you may command a further Account.

*March* the 29th, the Thermoscope in the Air was at  $8\frac{3}{4}$  inches; being put into a somewhat large evaporating glass, fill'd with water, it fell (after it staid a pretty while, and had been agitated in the liquor) to 8. inches: then about half the Salt, or less, that had been used *twice* before, and felt much less cold than the water, being put in and stirr'd about, the tinted Spirit subsided with a visible progress, till it was saln manifestly beneath 4. inches; and then, having caused some water to be freshly pump'd and brought in; though the newly mention'd Solution were mixt with it, yet it presently made the Spirit of Wine manifestly to ascend in the Instrument, much faster, than one would have expected, &c.

And thus much may suffice for this time concerning our *Frigorifick* Experiment; which I scarce doubt but the *Cartesians* will lay hold on as very favourable to some of their Tenents; which you will easily believe, it is not to the Opinion, I have elsewhere oppos'd, of those Modern Philosophers, that would have *Salt. petre* to be the *Primum Frigidum*: (though I found by trial, that, whilst 'tis actually dissolving; it gives a much considerabler degree of Cold, than otherwise.) But about the Reflexions, that may be made on this Experiment, and the Variations, and Improvements, & Uses of it, though I have divers things lying by me; yet, since you have seen several of them already, and may command a sight of the rest, I shall forbear the mention of them here, not thinking it proper, to swell the bulk of this Letter with them.

*An Account of two Books lately printed in London.*

*1. EUCLIDIS ELEMENTA GEOMETRICA, novo ordine ac methodo demonstrata.* In this compendious and pretty Edition, the Anonymous Author pretends to have rendred these Elements more expeditious; by bringing all together into one place, what belongs to one and the same subject: Comprising 1. what *Euclid* hath said of *Lines*, *Streight*, *Intersecting* one another, and *Parallel*. 2. What he hath demonstrated of a *Single Triangle*, and of *Triangles Compared* one with another. 3. What of the *Circle*, and its Properties. 4. What of *Proportions* in *Triangles* and other Figures. 5. What of *Quadrats* and *Rectangles*, made of *Lines* diversly

cut. 6. What of *Plane Superficies's*. 7. What of *Solids*. After which follow the *Problems*. The *Definitions* are put to each *Chapter* as need requirerh. The *Axioms*, because they are few, and almost every where necessary, are not thus distributed in *Chapters*. The *Postulata*, are not subjoyn'd to the *Axioms*, but reserv'd for the *Problems*, the Author esteeming, that they being *practical Principles*, had only place in *Problems*.

This for the *Order*: As to the *Manner* of Demonstrating, One and the same is observ'd in most Propositions; all with much brevity; to the end, that what is not of it self difficult, may not be made so, by multitude of Words and Letters.

II. *THE ENGLISH VINE-YARD VINDICATED*. The Author (Mr. John Rose, his Majesties Gardener at his Royal Garden in St. James's) makes it his business in this small Tract (a very thin Pocket-book) by a few short Observations made by himself, to direct *Englishmen* in the *Choice* of the *Fruit*, and the *Planting* of *Vine-yards*; heretofore very frequently cultivated, though of late almost quite neglected by them.

He discourses skilfully, 1. Of the severall sorts of *Vines*, and what *Grapes* are most suitable to the *Climate* of *England*; where he chiefly commends the small *Black-grape*, or *Cluster-grape*; the *Parsley grape*; the *White Muscadine*; the *Frontiniack*; and a new *White-grape*, with a red Wood and a dark green Leaf: All these being early ripe fruit. 2. Of the *Soyle*, and *Scituation* of a *Vine-yard* in *England*: Where, as to the *First*, he pitches upon a *Light Soile*, having a bottom of *Chalk* or *Gravel*, and given to *Brambles*, observing, that no *Plant* whatsoever is so connatural to the *Vine* for *Soyl*, as the *Bramble*. As for the *Scituation*, he chooses that side or declivity of a *Hill*, that lies to the *South* or *Southwest*; and is favoured with other *Hills* somewhat higher, or *Woods* on the *North* and *East*, to break the rigour of those quarters. This direction he thinks of that importance, that he affirms, that the discouragement of the Culture of *Vines* in *England* has only proceeded from men's mis-information on this material article of *Choice* of *Soyle* and *Scituation*. 3. How to prepare the Ground for the Plantation, *vid.* by plowing up the *Swarth* in *July*, and by disposing the *Turf* in small heaps, and so burning them; and spreading the ashes over the Land; care being taken, that by heaping too much materials together, the Earth be not over-burnt by the excessive heat and fire, which they require to reduce them to ashes.

What is added, of the *Manner* of planting the *Sets*; of *Dressing*, *Pruning* and *Governing* the Plantation; of the *Ordering* and *Cultivating* the *Vine-yard* after the first four years, till it needs renewing; as also of the *manner* and *time*, how and when to manure the *Vine-yard*, with *Compost*, will be better understood from the Book it self, than can be here described; the Author pretending, that, those few observations of his, as the native production of his own Experience, being practised with care, the *Vine-yards* in *England* may be planted, govern'd and perpetuated with undoubted success; and offering withall to furnish those, that have a desire to renew this Culture, and to store their grounds with *Sets* and *Plants* of all those sorts, which he recommends; he having a plentiful stock of them all.